

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1-103. (Canceled).

104. (Currently amended) A method for modulating the production of a polyketide produced by *A. terreus* a fungus, the method comprising overexpressing ~~ereA~~ CreA or a fungal homolog thereof in *A. terreus*, whereby the production of the polyketide is modulated.

105. (Original) The method of claim 104 wherein the polyketide is a statin.

106. (Original) The method of claim 105 wherein the statin is lovastatin.

107. (Canceled).

108. (Currently amended) The method of claim 104 comprising overexpressing ~~ereA~~ CreA.

109-118. (Canceled)

119. (Currently amended) The method of any one of claims 104, 105 and 106 ~~claim 107~~ wherein the yield production of a polyketide by *A. terreus* the fungus is increased.

120-143. (Canceled).

144. (Currently Amended) A method for producing a polyketide, the method comprising culturing in culture medium under conditions suitable for the production of the polyketide a genetically modified *A. terreus* fungus that produces the polyketide and overexpresses CreA or a fungal homolog thereof, whereby the polyketide is produced.

145. (Original) The method of claim 144 wherein the polyketide is a statin.

146. (Original) The method of claim 145 wherein the statin is lovastatin.

147. (Canceled).

148. (Currently amended) The method of any one of claims 144, 155 and 146 claim 144 further comprising isolating a fraction of culture medium containing a polyketide.

149-224. (Canceled).

225. (Currently amended) A method for modulating the production of a polyketide produced by *A. terreus* a fungus, the method comprising conditionally expressing ~~creA~~ CreA or a fungal homolog thereof in A. terreus, whereby the production of the polyketide is modulated.

226. (Previously presented) The method of claim 225 wherein the polyketide is a statin.

227. (Previously presented) The method of claim 226 wherein the statin is lovastatin.

228. (Canceled).

229. (Currently amended) The method of claim 225 comprising conditionally expressing CreA ~~ereA~~.

230. (Canceled).

231. (Currently amended) The method of any one of claims 225, 226 and 227 ~~claim 225~~ wherein the production yield of polyketide by *A. terreus* ~~the fungus~~ is increased.

232. (Currently amended) A method for producing a polyketide, the method comprising culturing in culture medium under conditions suitable for the production of the polyketide a genetically modified *A. terreus* ~~fungus~~ that produces the polyketide and conditionally expresses CreA or a fungal homolog thereof, whereby the polyketide is produced.

233. (Previously presented) The method of claim 232 wherein the polyketide is a statin.

234. (Previously presented) The method of claim 233 wherein the statin is lovastatin.

235. (Canceled).

236. (Currently Amended) The method of any one of claims 232, 233, and 234 ~~claim 232~~ further comprising isolating a fraction of culture medium containing [a] the polyketide.

237. (Currently Amended) The method of any one of claims 104, 105, 106, 225, 226 and 227 ~~claim 104 or 225~~ wherein production of the polyketide is increased.

238. (Currently Amended) The method of any one of claims 104, 105, 106, 225, 226 and 227 ~~claim 104 or 225~~ wherein production of the polyketide is decreased.

239. (Newly added) A method for producing a statin, the method comprising:

(a) culturing in culture medium under conditions suitable for the production of the statin a fungus that produces the statin and has been genetically modified to overexpress CreA or a fungal homolog thereof, whereby the statin is produced; and

(b) isolating a fraction of culture medium containing the statin.

240. (Newly added) The method of claim 239 wherein the statin is lovastatin.

241. (Newly added) The method of claim 239 or 240 wherein the fungus is an *Ascomycete*.

242. (Newly added) The method of claim 239 or 240 wherein the fungus is *A. terreus*.

243. (Newly added) A method for producing a statin, the method comprising:

(a) culturing in culture medium under conditions suitable for the production of the statin a fungus that produces the statin and has been genetically modified to conditionally express CreA or a fungal homolog thereof, whereby the statin is produced; and

(b) isolating a fraction of culture medium containing a statin.

244. (Newly added) The method of claim 243 wherein the statin is lovastatin.

245. (Newly added) The method of claim 243 or 244 wherein the fungus is an *Ascomycete*.

246. (Newly added) The method of claim 243 or 244 wherein the fungus is *A. terreus*.

247. (Newly added) A method for producing a polyketide, the method comprising:

(a) culturing in culture medium under conditions suitable for the production of the polyketide a fungus that produces the polyketide and has been genetically modified to overexpress CreA or a fungal homolog thereof, whereby the polyketide is produced; and

(b) isolating a fraction of culture medium containing the polyketide.

248. (Newly added) The method of claim 247 wherein the polyketide is a statin.

249. (Newly added) The method of claim 248 wherein the statin is a lovastatin.

250. (Newly added) The method of claim any one of claims 247, 248 and 249 wherein the fungus is an *Ascomycete*.

251. (Newly added) The method of claim 250 wherein the *Ascomycete* is *A. terreus*.

252. (Newly added) A method for producing a polyketide, the method comprising:

(a) culturing in culture medium under conditions suitable for the production of the polyketide a fungus that produces the polyketide and has been genetically modified to conditionally expresses CreA or a fungal homolog thereof, whereby the polyketide is produced; and

(b) isolating a fraction of culture medium containing a polyketide.

253. (Newly added) The method of claim 252 wherein the polyketide is a statin.

254. (Newly added) The method of claim 253 wherein the statin is lovastatin.

255. (Newly added) The method of any one of claims 252, 253 and 254 wherein the fungus is an *Ascomycete*.

256. (Newly added) The method of claim 255 wherein the *Ascomycete* is *A. terreus*.

257. (Newly added) A method comprising:

- (a) modulating the production of a polyketide produced by a fungal cell by genetically modifying the fungal cell to overexpress CreA or a fungal homolog thereof;
- (b) culturing the genetically modified fungal cell in culture medium under conditions suitable for the production of the polyketide; and
- (c) isolating a fraction of culture medium containing the polyketide.

258. (Newly added) The method of claim 257 wherein the polyketide is a statin.

259. (Newly added) The method of claim 258 wherein the statin is a lovastatin.

260. (Newly added) The method of any one of claims 257, 258 and 259 wherein the fungal cell is genetically modified to overexpress CreA.

261. (Newly added) The method of claim 260 wherein the fungal cell is an *Ascomycete*.

262. (Newly added) The method of claim 261 wherein the *Ascomycete* is *A. terreus*.

263. (Newly added) A method comprising:

- (a) modulating the production of a polyketide produced by a fungal cell by genetically modifying the fungal cell to conditionally express CreA or a fungal homolog thereof;
- (b) culturing the genetically modified fungal cell in culture medium under conditions suitable for the production of the polyketide; and
- (c) isolating a fraction of culture medium containing the polyketide.

264. (Newly added) The method of claim 263 wherein the polyketide is a statin.

265. (Newly added) The method of claim 264 wherein the statin is a lovastatin.

266. (Newly added) The method of any one of claims 263, 264 and 265 wherein the fungal cell is genetically modified to conditionally express CreA.

267. (Newly added) The method of claim 266 wherein the fungal cell is an *Ascomycete*.

268. (Newly added) The method of claim 267 wherein the *Ascomycete* is *A. terreus*.